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=> file reg
FILE 'REGISTRY' ENTERED AT 09:22:45 ON 10 SEP 93
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STRUCTURE FILE UPDATES:   5 SEP 93   HIGHEST RN 149817-95-8
DICTIONARY FILE UPDATES:  8 SEP 93   HIGHEST RN 149817-95-8

=> s
gaggctattgtagcctacactttgg|cagcaccatcctcctcttcctctgg|tgcactgccaggtgcttcggctc
at/sqsn
EXCLUDE SEARCH OF COMPLEMENTARY STRAND Y/(N)?:n
L1           10 GAGGCTATTGTAGCCTACACTTTGG|CAGCACCATCCTCCTCTTCCTCTGG|TGCACT
                GCCAGGTGCTTCGGCTCAT/SQSN

=> s
caccacgcagcggcccttgatgttt|ggtgtcacccccagagtcccctgtacccgc|gacacagtgtcctcccgc
tcctcctgagca/sqsn
EXCLUDE SEARCH OF COMPLEMENTARY STRAND Y/(N)?:n
L2           14 CACCACGCAGCGGCCCTTGATGTTT|GGTGTCACCCCCAGAGTCCCCTGTACCCGC|G
                ACACAGTGTCCTCCCGCTCCTCCTGAGCA/SQSN

=> s gtggaaggcggctcgctggaagccggtcgt|gaaccgagggccggctcacctctatgttgg/sqsn
EXCLUDE SEARCH OF COMPLEMENTARY STRAND Y/(N)?:n
L3            5 GTGGAAGGCGGCTCGCTGGAAGCCGGTCGT|GAACCGAGGGCCGGCTCACCTCTATGT
                TGG/SQSN

=> s l1 or l2 or l3
L4           21 L1 OR L2 OR L3

=> d l4 fide 1-21;file ca;s l4 or l4/d


L4   ANSWER 1 OF 21  COPYRIGHT 1993 ACS
RN   142390-87-2  REGISTRY
CN   GenBank M95639 (9CI)  (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
MF   Unspecified
CI   MAN
SR   GenBank
LC   BIOSIS, GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4   ANSWER 2 OF 21  COPYRIGHT 1993 ACS
RN   142362-06-9  REGISTRY
CN   GenBank M95638 (9CI)  (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
MF   Unspecified
CI   MAN
SR   GenBank
LC   BIOSIS, GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
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L4 ANSWER 3 OF 21 COPYRIGHT 1993 ACS
RN 142362-05-8 REGISTRY
CN GenBank M95637 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC BIOSIS, GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4 ANSWER 4 OF 21 COPYRIGHT 1993 ACS
RN 142362-04-7 REGISTRY
CN GenBank M95636 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC BIOSIS, GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4 ANSWER 5 OF 21 COPYRIGHT 1993 ACS
RN 142362-03-6 REGISTRY
CN GenBank M95635 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC BIOSIS, GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4 ANSWER 6 OF 21 COPYRIGHT 1993 ACS
RN 142362-02-5 REGISTRY
CN GenBank M95634 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC BIOSIS, GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4 ANSWER 7 OF 21 COPYRIGHT 1993 ACS
RN 141347-96-8 REGISTRY
CN Deoxyribonucleic acid, d(G-G-T-G-T-C-A-C-C-C-C-C-A-G-A-G-T-C-C-C-C-T-G-T-A-C-C-C-G-C) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C286 H366 N107 O179 P29
CI MAN
SR CA
LC CA

DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L4 ANSWER 8 OF 21 COPYRIGHT 1993 ACS
RN 141254-92-4 REGISTRY
CN Deoxyribonucleic acid, d(G-T-G-G-A-A-G-G-C-G-G-C-T-C-G-C-T-G-G-A-A-G-C-C-G-G-T-C-G-T[oxyphosphinicooxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyloxyphosphinicooxy[2-(aminomethyl)-1,2-ethanediyl]oxyphosphinicooxy]T), trisodium salt (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C322 H421 N124 O204 P33 . 3 Na
CI MAN
SR CA
LC CA
DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L4 ANSWER 9 OF 21 COPYRIGHT 1993 ACS
RN 141254-91-3 REGISTRY
CN Deoxyribonucleic acid, d(G-A-A-C-C-G-A-G-G-G-C-C-G-G-C-T-C-A-C-C-T-C-T-A-T-G-T-T-G-G[oxyphosphinicooxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyloxyphosphinicooxy[2-(aminomethyl)-1,2-ethanediyl]oxyphosphinicooxy]T), trisodium salt (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C320 H422 N117 O204 P33 . 3 Na
CI MAN
SR CA
LC CA
DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L4 ANSWER 10 OF 21 COPYRIGHT 1993 ACS
RN 141254-85-5 REGISTRY
CN Deoxyribonucleic acid, d(G-A-C-A-C-A-G-T-G-T-C-C-T-C-C-C-G-C-T-C-C-T-C-C-T-G-A-G-C-A[oxyphosphinicooxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyloxyphosphinicooxy[2-(aminomethyl)-1,2-ethanediyl]oxyphosphinicooxy]T), trisodium salt (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C316 H422 N109 O204 P33 . 3 Na
CI MAN
SR CA
LC CA
DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L4 ANSWER 11 OF 21 COPYRIGHT 1993 ACS
RN 141254-84-4 REGISTRY
CN Deoxyribonucleic acid, d(G-G-T-G-T-C-A-C-C-C-C-C-A-G-A-G-T-C-C-C-C-T-G-T-A-C-C-C-G-C[oxyphosphinicooxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyloxyphosphinicooxy[2-(aminomethyl)-1,2-ethanediyl]oxyphosphinicooxy]T), trisodium salt (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C315 H421 N110 O204 P33 . 3 Na
CI MAN
SR CA
LC CA
DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L4 ANSWER 12 OF 21 COPYRIGHT 1993 ACS
RN 141254-05-9 REGISTRY
CN Deoxyribonucleic acid, d(G-A-C-A-C-A-G-T-G-T-C-C-T-C-C-C-G-C-T-C-C-T-C-C-T-G-A-G-C-A) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C287 H367 N106 O179 P29
CI MAN
SR CA
LC CA
DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

L4 ANSWER 13 OF 21 COPYRIGHT 1993 ACS
RN 141157-48-4 REGISTRY
CN GenBank X17403 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC BIOSIS, GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4 ANSWER 14 OF 21 COPYRIGHT 1993 ACS
RN 140310-25-4 REGISTRY
CN GenBank M15120 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4 ANSWER 15 OF 21 COPYRIGHT 1993 ACS
RN 140055-46-5 REGISTRY
CN GenBank M21295 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4 ANSWER 16 OF 21 COPYRIGHT 1993 ACS
RN 139829-96-2 REGISTRY
CN GenBank M11630 (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC GENBANK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L4 ANSWER 17 OF 21 COPYRIGHT 1993 ACS
RN 120298-79-5 REGISTRY
CN Deoxyribonucleic acid, d(G-A-G-G-C-T-A-T-T-G-T-A-G-C-C-T-A-C-A-C-T-T-T-G-G) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C245 H309 N91 O151 P24
CI MAN
SR CA
LC CA
DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
2 REFERENCES IN FILE CA (1967 TO DATE)

L4 ANSWER 18 OF 21 COPYRIGHT 1993 ACS
RN 120298-76-2 REGISTRY
CN Deoxyribonucleic acid, d(C-A-C-C-A-C-G-C-A-G-C-G-G-C-C-C-T-T-G-A-T-G-T-T-T) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C241 H307 N89 O150 P24
CI MAN
SR CA
LC CA
DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
2 REFERENCES IN FILE CA (1967 TO DATE)

L4 ANSWER 19 OF 21 COPYRIGHT 1993 ACS
RN 120298-74-0 REGISTRY
CN Deoxyribonucleic acid, d(C-A-G-C-A-C-C-A-T-C-C-T-C-C-T-C-T-T-C-C-T-C-T-G-G) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF C238 H308 N80 O152 P24
CI MAN
SR CA
LC CA
DES 5:ALL,B-D-ERYTHRO

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
3 REFERENCES IN FILE CA (1967 TO DATE)

L4 ANSWER 20 OF 21 COPYRIGHT 1993 ACS
RN 107852-26-6 REGISTRY
CN Deoxyribonucleic acid (human cytomegalovirus clone pCM1007 phosphoprotein pp 71 gene) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR CA
LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1967 TO DATE)

L4 ANSWER 21 OF 21 COPYRIGHT 1993 ACS
RN 96352-27-1 REGISTRY
CN Deoxyribonucleic acid (human cytomegalovirus strain AD169 64-kilodalton protein gene) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
LC CA

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1967 TO DATE)

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FILE COVERS 1967 - 4 Sept 93 (930904/ED) VOL 119 ISS 10.

5 L4
1 L4/D
L5 5 L4 OR L4/D

=> d l5 bib,abs,hitrn 1-5

L5 ANSWER 1 OF 5 COPYRIGHT 1993 ACS

AN CA118(21):206528s
TI Effect of interstrain variation on diagnostic DNA amplification of the cytomegalovirus major immediate-early gene region
AU Chou, Sunwen
CS Med. Serv., VA Med. Cent.
LO Portland, OR 97201, USA
SO J. Clin. Microbiol., 30(9), 2307-10
SC 3-3 (Biochemical Genetics)
SX 10, 14
DT J
CO JCMIDW
IS 0095-1137
PY 1992
LA Eng
AN CA118(21):206528s
AB The immediate-early region exon 4 sequences of six clin. cytomegalovirus strains were detd. and compared with those of lab. strains AD169 and Towne. Of 407 codons in exon 4, 33 (8.1%) showed interstrain variation at the peptide level and 74 (18%) showed interstrain variation at the nucleotide level. Variation occurred sporadically throughout the exon, and no grouping of strains was apparent. Published oligonucleotide primers proposed for diagnostic detection of cytomegalovirus by polymerase chain reaction have often been based on exon 4 sequences. Some of these primers show sequence mismatches with strains sequenced here. Amplification sensitivity for mismatched strains was reduced up to 100-fold. More-uniform detection sensitivity was achieved with primers of conserved sequence.
IT **120298-74-0**
(primer MIE-5, for cytomegalovirus strain diagnostic PCR)

L5 ANSWER 2 OF 5 COPYRIGHT 1993 ACS
AN CA116(23):231340r
TI Biologically active reagents prepared from carboxy-containing polymer particles for affinity chromatography, immunoassays, and other specific binding assays
AU Sutton, Richard Calvin; Danielson, Susan Jean; Findlay, John Bruce; Oakes, Fred Terry; Oenick, Marsha Denise Bale; Ponticello, Ignazio S.; Warren, Harold Chester
CS Eastman Kodak Co.
LO USA
SO Eur. Pat. Appl., 53 pp.
PI EP 462644 A1 27 Dec 1991
DS R: AT, BE, CH, DE, DK, FR, GB, IT, LI, LU, NL, SE
AI EP 91-201420 10 Jun 1991
PRAI US 90-539774 18 Jun 1990
IC ICM G01N033-546
ICS G01N033-569; G01N033-74; G01N033-94; C12Q001-68; G01N033-52
SC 9-15 (Biochemical Methods)
SX 1, 2, 3
DT P
CO EPXXDW
PY 1991
LA Eng
AN CA116(23):231340r
AB Biol. active reagents are prepd. from particles of copolymers having highly reactive carboxy or equiv. groups. The reagents are prepd. by

covalently attaching biol. active substances, e.g. antibodies, to the particles, directly or indirectly, through highly reactive carboxy groups on the particle surface. These reagents are used in anal. elements, in immunoassays and other specific binding assays such as nucleic acid hybridization assays, and in affinity chromatog. Goat anti-human chorionic gonadotropin (hCG) .alpha.-chain antibodies were coupled to particles of poly[styrene-co-3-(p-vinylbenzylthio)propionic acid] using 1-(1-pyrrolidinylcarbonyl)pyridinium chloride as the activating agent and used in an immunoassay for hCG. A very low concn. of hCG (50 mIU) could be detected with 0 background. Prepn. of reagents and assays for DNA for human immunodeficiency virus 1, .beta.-globin, and cytomegalovirus are also described as are immunoassay elements for thyroxine, etc.

IT **120298-76-2** 141257-08-1
(as polymerase chain reaction primer for cytomegalovirus late antigen DNA amplification and detection)

IT **120298-74-0** **120298-79-5**
(as polymerase chain reaction primer for cytomegalovirus major immediate early antigen DNA amplification and detection)

IT **141254-84-4DP**, conjugates with carboxy group-contg. copolymer particles **141254-85-5DP**, conjugates with carboxy group-contg. copolymer particles **141254-91-3DP**, conjugates with carboxy group-contg. copolymer particles **141254-92-4DP**, conjugates with carboxy group-contg. copolymer particles
(prepn. of, as reagent for cytomegalovirus DNA detection)

IT **141254-05-9DP**, conjugates with carboxy group-contg. copolymer particles **141347-96-8DP**, conjugates with carboxy group-contg. copolymer particles
(prepn. of, as reagent for cytomegalovirus major immediate early antigen DNA detection)

L5 ANSWER 3 OF 5 COPYRIGHT 1993 ACS
AN CA110(21):188625z
TI Detection of cytomegalovirus in urine from newborns by using polymerase chain reaction DNA amplification
AU Demmler, Gail J.; Buffone, Gregory J.; Schimbor, Connie M.; May, Romelia A.
CS Dep. Pediatr., Baylor Coll. Med.
LO Houston, TX 77030, USA
SO J. Infect. Dis., 158(6), 1177-84
SC 9-2 (Biochemical Methods)
SX 14
DT J
CO JIDIAQ
IS 0022-1899
PY 1988
LA Eng
AN CA110(21):188625z
AB Polymerase chain reaction (PCR) amplification was used to detect cytomegalovirus (CMV) in tissue culture and in urine specimens from newborns. Synthetic oligonucleotide primer pairs were used to amplify DNA from the major immediate-early and the late antigen genes of CMV. Amplified products were detected by gel electrophoresis and by dot-blot hybridization with oligonucleotide probes. Using 1 or both of the primer pairs and assocd. probes, 46 different tissue culture isolates of CMV were found that were pos.;

no reaction products were detected when the same primers and probes were used to amplify other herpes family viruses or human genomic DNA. Urine samples from 44 congenitally infected infants were pos. when tested with 1 or both primer pairs and probes. When compared with tissue culture, detection by gel electrophoresis provided a sensitivity of 93%, a specificity of 100%, and a predictive value of a pos. result of 100%. Dot-blot anal. raised the sensitivity to 100%. It is concluded that PCR amplification may be a valuable tool for diagnosing congenital CMV infection.

IT **120298-74-0** 120298-75-1 **120298-76-2**
120298-77-3 120298-78-4 **120298-79-5**
(primer, for cytomegalovirus DNA sequence amplification, for virus detection in urine of newborn)

L5 ANSWER 4 OF 5 COPYRIGHT 1993 ACS
AN CA106(21):169906t
TI Primary structure and transcription of the genes coding for the two virion phosphoproteins pp65 and pp71 of human cytomegalovirus
AU Rueger, Barbara; Klages, Sabine; Walla, Birgitt; Albrecht, Jens; Fleckenstein, Bernhard; Tomlinson, Peter; Barrell, Bart
CS Inst. Klin. Virol., Univ. Erlangen-Nuernberg
LO Erlangen D-8520, Fed. Rep. Ger.
SO J. Virol., 61(2), 446-53
SC 3-2 (Biochemical Genetics)
DT J
CO JOVIAM
IS 0022-538X
PY 1987
LA Eng
AN CA106(21):169906t
AB Human cytomegalovirus contains a phosphorylated matrix protein of 65,000 apparent mol. wt. (65K phosphoprotein; pp65) and a related phosphoprotein of 71,000 mol. wt. (pp71). The 65K phosphoprotein is usually by far the most abundant structural component found in culture-grown purified virus particles. This study describes the precise mapping of the genes for both polypeptides, giving the entire nucleotide sequences and the exact positions of the resp. transcripts. The 65K phosphoprotein is coded for by the 5'-terminal part of an abundant 4-kilobase (kb) mRNA. The 71K phosphoprotein corresponds to the single translational reading frame of a rare nonspliced 1.9-kb mRNA that is coterminal with the 4-kb transcript. The promoter for 4-kb mRNA appears to be unusual in structure; it does not contain a characteristic TATA sequence. The expression of antigenic epitopes from pp65 may allow improved serodiagnosis of human cytomegalovirus infections.
IT 107852-25-5 **107852-26-6**
(nucleotide sequence of)

L5 ANSWER 5 OF 5 COPYRIGHT 1993 ACS
AN CA102(23):198790y
TI The structure of the major immediate early gene of human cytomegalovirus strain AD169
AU Akrigg, A.; Wilkinson, G. W. G.; Oram, J. D.
CS Mol. Genet. Lab., Cent. Appl. Microbiol. Res.
LO Salisbury/Wiltshire SP4 0JG, UK
SO Virus Res., 2(2), 107-21
SC 3-2 (Biochemical Genetics)

DT J
CO VIREDF
PY 1985
LA Eng
AN CA102(23):198790y
AB The nucleotide sequence of the major immediate early (IE) gene of human cytomegalovirus strain AD169 was detd. The structure of the gene was examd. by nuclease mapping and by sequence anal. of a cDNA clone made up of 4 exon sequences of 121, 88, 185, and 1342 nucleotides. Three introns (827, 114,and 170 nucleotides) were located near the 5' end of the gene. A single open reading frame starting in the 2nd exon extends for 491 amino acids and corresponds to a protein of mol. wt. 64,000. The putative promoter region contains several short direct and inverted repeat sequences of 16, 18, 19, and 21 nucleotides, which extend 509 nucleotides upstream from the transcription start site. The structure of the major IE gene and its protein product are discussed and compared with the corresponding IE gene from the Towne strain of HCMV.

IT **96352-27-1**
(nucleotide sequence of)